WEAR CONTAMINATION **FLUID CONDITION**

NORMAL NORMAL NORMAL

DETROIT HARVEST QUEEN

Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		PE0001221		
	Sample Date		Client Info		06 Feb 2024		
	Machine Age	hrs	Client Info		0		
	Oil Age	hrs	Client Info		12		
	Filter Age	hrs	Client Info		12		
	Oil Changed		Client Info		N/A		
	Filter Changed		Client Info		N/A		
	Sample Status				NORMAL		
VEAR	Iron	ppm	ASTM D5185m	>200	7		
V EAT	Chromium	ppm	ASTM D5185m		, <1		
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m		0		
	Silver		ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m		<1		
	Lead		ASTM D5185m		<1 <1		
	Copper	ppm	ASTM D5185m		3		
	Tin	ppm	ASTM D5185m		1		
	Vanadium		ASTM D5185m	>10	0		
	White Metal	ppm scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m		2		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		0		
	Fuel		WC Method		<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844		0.1		
	Nitration	Abs/cm	*ASTM D7624	>20	3.7		
	Sulfation	Abs/.1mm	*ASTM D7415		12.3		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.2	NEG		
LUID CONDITION	Sodium	ppm	ASTM D5185m		0		
	Boron	ppm	ASTM D5185m	13	7		
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m	57	36		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m	825	665		
	Calcium	ppm	ASTM D5185m		802		
	Phosphorus	ppm	ASTM D5185m		751		
	Zinc	ppm	ASTM D5185m		993		
	Sulfur	ppm	ASTM D5185m		2457		
	Oxidation	Abs/.1mm	*ASTM D7414		6.4		
	Base Number (BN)				6.0		
		39					







Certificate L2367

Laboratory

Sample No.

Lab Number : 06089254 Unique Number: 10876699

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PE0001221 Received : 14 Feb 2024 **Tested**

: 15 Feb 2024 : 16 Feb 2024 - Jonathan Hester Diagnosed

Test Package : CONST (Additional Tests: FT-IR, ICP, KV100, SCREEN, TBN) To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

US 98333 Contact: SERVICE MANAGER

NAUTICAL TREE SERVICE LLC

nauticaltree@gmail.com

T: (253)226-1340

FOX ISLAND, WA

930 9TH AVE